ENVIRONMENTAL CHEMISTS

Date of Report: September 9, 1993 Date Received: September 7, 1993

Project: 7238, Process Sump Effluent, PO# M30745

Date Samples Extracted: September 7, 1993 Date Extracts Analyzed: September 8, 1993

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC

Samples Processed Using Method 3005

Results Reported as $\mu g/L$ (ppb) mg/L (PPm) BTB g/s/g 3 Sample # Chromium Copper **Nickel** Zinc M30745 21 9.3 18 0.4 **Quality Assurance** Blank < 0.05 < 0.05 < 0.05 < 0.05 M30745 (Duplicate) 20 17 8.8 0.4 M30745 (Matrix Spike) % Recovery ai 73% ai 90% M30745 (Matrix Spike Duplicate) % Recovery ai ai 81% 94% Spike Blank % Recovery 98% 96% 97% 95% Spike Level 5 5 10 5

ai The amount spiked was insufficient to give meaningful recovery data.

ENVIRONMENTAL CHEMISTS

Date of Report: September 9, 1993 Date Received: September 7, 1993

Project: 7238, Process Sump Effluent, PO# M30745

Date Extracts Analyzed: September 7, 1993

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR pH

 Sample #
 pH

 M30745
 9.55

 Qualtiy Assurance
 9.50

FRIEDMAN & BRUYA, INC. 3008-B 16th Avenue West Seattle, WA 98119

SAMPLE CHAIN OF CUSTODY

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REMARKS			em spe.	SAMPLE	E DISPOSAL IN	IFORM.	
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ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

September 9, 1993

DUPLICATE COPY

INVOICE # 93ACU0909-1

Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project 7238, Process Sump Effluent, PO# M30745: Results of testing requested by Gerald Thompson, Project Leader and submitted on September 7, 1993.

1 water sample analyzed for pH	
@ \$10 per sample	\$ 10.00
1 water sample analyzed for	
Chromium, Copper, Nickel, Zinc	
@ \$65 per sample	<u>65.00</u>
Amount Due	\$ 75.00

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

September 9, 1993

Gerald Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on September 7, 1993 from Project 7238, Process Sump Effluent, PO# M30745.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

amy Bray

Amy M. Gray Chemist

AMG/sao

Enclosures